Precalculus Daily Lessons 5.4-5 and Final Review

December 2019 – Janunary 2020

Tuesday, December 10, 2019

Objective: I can find values on the unit circle or other triangles for which I do not know special points using sum and difference formulas (provided)

* Answers to HW #12 – go over in detail
* How to solve equations, go over in detail.
* Worksheet 5.4 – work on in class and check as you go.
* Pass out final review. Get at least the first page done by next time.
* View test results.
* Quiz 5.4 next time. There is not an arcsin problem. There is an equation to solve.

Next time: notes for final, notecard, replace grade, etc.

Thursday, December 12, 2019

Objective: I can demonstrate mastery over sum and difference formulas.

* Answers to review worksheet.
* Demonstrate: solve an equation
* Quiz 5.4 – 20 pts
* Work on review.
* Answers to first two pages.
* Pass out 4.1-3 test. Look for questions like review.
* Work on review; turn in old test.
* Answers to quiz on screen.

Monday, December 16, 2019

Objective: I can practice skills related to 4.1-8 and 5.1-4

* Return 5.4 quizzes – questions
* Work on 2nd part of review for final
* Answers to both parts to check in class.
* How will questions be asked that are different? What to look for?
* Practice: adding or subtracting Ɵ to find a different radian on the unit circle.
* Replacing and/or dropping a grade. Check grade after quiz is posted.

Friday, January 10, 2020

Objective: I can use special double angle and half angle identities to find unknowns.

* Results on final. What if?
* Notes – deriving formulas for double angles, half angles, and power reducing.
* Notes – how to apply these in examples. How can I shortcut around the formula by noticing patterns?
* Important: When you half the large angle in a 7-24-25 right triangle, you get the small angle in a 3-4-5 right triangle. Therefore if you need to double a 3-4-5, you know it will be a 7-24-25 and vice versa.
* How this one section incorporates almost the entire semester (except for graphing).
* HW #1 – pp 388-9: 7-10, 21-24, 41-44, 74-75.
* Work on homework in class. Return finals to self-check. Collected and conferenced if needed.

Quiz Thursday, January 16, 2020 on 5.5.

Tuesday, January 14, 2020

Objective: I can use power-reducing formulas to go from 4th power to 2nd power. I can use half angle identities to solve applications of physics.

* Try these: apply each of the 4 formulas once.
* Take a grade on HW #1
* Answers to HW on screen. Questions.
* Notes and Practice – power reducing formulas and real-world application of half-angle identity.
* HW #2 – Worksheet 5.5

Quiz next block – 5.5. Study worksheet.

Thursday, January 16, 2020

Objective: I can demonstrate mastery over double and half-angle identities. I can derive and apply the triangle area formula from sines and the Law of Sines.

* Answers to HW #2 on screen. Go over in detail. Questions.
* Investigation – area of any triangle given two sides and the angle between. Law of Sines.
* Take a grade on HW #2 – 4 pts
* HW #3 – 11 problems from Geometry textbook on handout
* Quiz 5.5 – Half and Double Angle Identities – 25 pts